Keston

BY IDEAL BOILERS



KESTON COMBI 30kW & 35kW Output Combi Boiler



- 7 year warranty⁺
- Easy to see pressure gauge
- Large backlit display with user friendly controls
- Low lift weight
- Low component count maximising reliability
- Compact dimensions
- Twin flue up to 27m*
- 50mm muPVC (PVC-C) solvent weld flue allowing simple, cost effective installations**
- Weather compensator supplied as standard making Keston Combi Boiler Plus compliant out of the box
- Pre-fitted filling loop
- Inbuilt frost protection
- Fully modulating
- LPG conversion kit available



TWIN FLUE DESIGN

Providing the perfect solution for problematic and awkward installation



WEATHER COMPENSATOR

All models in the Keston range come complete with weather compensation as standard



BRITISH BUILT SINCE 2013

All Keston boilers are built in and designed for the British market

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British Built Since 2013

T / year warranty when installed with a Keston 22mm System filter and registered within 30 days of installation. 5 year parts & labour warranty as standard. / year warranty available until 31/12/20. Terms and conditions apply. * For the maximum total equivalent flue length, please refer to the installation manual. ** The only systems approved for this application are: Marley muPVC (PVC-C) Solvent Weld Waste System (50mm), Polypipe System 2000 muPVC (PVC-C) Solvent Weld Waste System (50mm), Polypipe Terrain Solvent Weld System (50mm) and Wavin Osma PVC-C Solvent Weld System (50mm). Please use the recommended Solvent Weld Cement for each system. ** For the maximum total equivalent flue length, please refer to the installation manual.

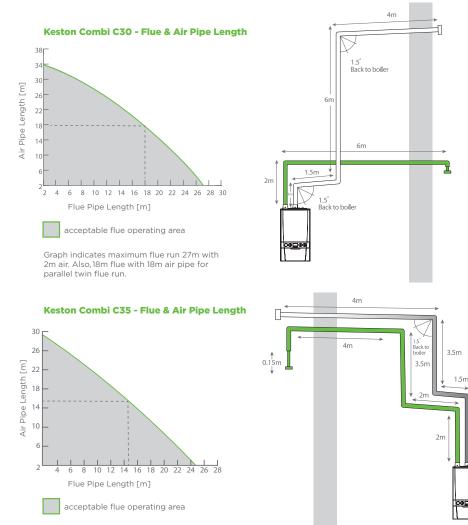
SPECIFICATION DATA

CENTRAL HEATING			C30	C35
CH Output @ 70°C	Max	kW	24.2	24.2
CH Output @ 40°C	Max	kW	25.6	25.6
	Min	kW	6.4	7.5
CH Input	Nett CV Max	kW	24.3	24.3
	Nett CV Min	kW	6.1	7.1
CH Input	Gross CV Max	kW	27.0	27.0
	Gross CV Min	kW	6.7	7.9
CH Gas Consumption	Max	m³/h	2.512	2.512
	Min	m³/h	0.623	0.734
HOT WATER			C30	C35
DHW Output	Max	kW	30.3	35.3
DHW Input	Nett CV Max	kW	30.4	35.4
DHW Input	Gross CV Max	kW	33.7	39.3
DHW Gas Consumption		m³/h	3.135	3.658
DHW Flow Rate at 35°C Rise		l/min	12.4	14.5
DHW Specific Rate		l/min	14.5	16.9

OTHERS			C30	C35
Seasonal Efficiency	SEDBUK 2005	%	91.1	91.1
	SEDBUK 2009	%	89.6	89.6
Seasonal Space Heating Efficiency Class			А	А
NOx Classification			Class 5	Class 5

		670	075
GENERAL DATA	-	C30	C35
Max Horizontal Flue Length	m	27 Flue / 2 Air	25 Flue / 2 Air
Max Horizontal Flue Length (Parallel)	m	18 Flue / 18 Air	15 Flue / 15 Air
Flue Terminal Diameter	mm	50	
Gas Supply		2H - G20 - 20mbar	
Gas Supply Connection		15mm copper compression	
Injector Size	mm	4.65	4.90
Flow Connection (CH)		22mm copper compression	
Return Connection (CH)		22mm copper compression	
Inlet Connection (DHW)		15mm copper compression	
Outlet Connection (DHW)		15mm copper compression	
Average Flue Temp - Mass Flow Rate (DHW)		68°C - 13g/s	73°C - 15g/s
CO ₂ Content (±0.7) (Max CH)	%	8.8	8.9
CO ₂ Content (±0.7) (Max DHW)	%	9.3	9.5
Max Working Pressure (Sealed Systems)	bar (psi)	2.5 (36.3)	
Max DHW Inlet Pressure	bar (psi) (kPa)	10.0 (145) (1000)	
Min DHW Inlet Pressure	bar (psi) (kPa)	1.3 (18.9) (130)	
Electrical Supply		230V - 50Hz	
Power Consumption	\mathbb{W}	101	114
Fuse Rating		External 3A / Internal: T4A HRC L250V	
Water Content (CH)	l (gal)	1.2 (0.26)	
Water Content (DHW)	l (gal)	0.5 (0.11)	
Weight (Packed)	kg	34.4	34.5
Maximum Installation Weight	kg	31.4	31.5

EXAMPLE FLUE INSTALLATION



C53 HORIZONTAL

Calculations

Flue Elbows 3 x 1m = 3m Straights 4+6+1.5+1 = 12.5m Total = 15.5m

Air Elbows $2 \times 1m = 2m$ Straights 6+2+0.1+1 = 8.1m Total = 10.1m

C13 HORIZONTAL

Calculations

Flue Elbows 3 x 1m = 3m Straights 4+3.5+1.5+2.5 = 11.5m Total = 14.5m

Air

2.5m

Elbows 4 x 1m = 4m Straights 2+2+3.5+4+0.15 = 11.65m Total = 15.65m

Graph indicates maximum flue run 25m with 2m air. Also, 15m flue with 15m air pipe for parallel twin flue run.

DIMENSIONS

700mm
395mm
278mm

The following minimum clearances must be maintained for operation and servicing. Front of boiler - 450mm Sides of boiler - 2.5mm Above boiler - 350mm, with 30mm above the flue Below boiler - 100mm

* Or equivalent length. ⁺ Can be reduced to 5mm for cupboard fit, 450mm required for servicing.



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